

- Quiz Tomorrow \rightarrow Friday, 3/7
 - z-scores
 - 68-95-99.7 Rule
- Test Wednesday, 3/12

z-Score Practice:

$$5. \quad a) \quad z = \frac{y - \bar{y}}{s} = 0.76$$

$$b) \quad z = 1.42$$

$$c) \quad z = -1.02$$

$$6. \quad z = \frac{y - \bar{y}}{s}$$

$$y - \bar{y} = zs$$

$$y = \bar{y} + zs$$

$$= (7.6g) + (3.87)(4.5g)$$

$$= 25.02g$$

$$7. \quad y = \bar{y} + zs$$

$$= 7.6g + (-0.8)(4.5g)$$

$$= 4g$$

8. slalom
 $z = -1.2$ ← he did better
relative to the
competition in
this race
- downhill $z = -0.2$
9. Test 1 $z = 0.5$ ← you want
the teacher
to drop Test 1
- Test 2 $z = 1.0$

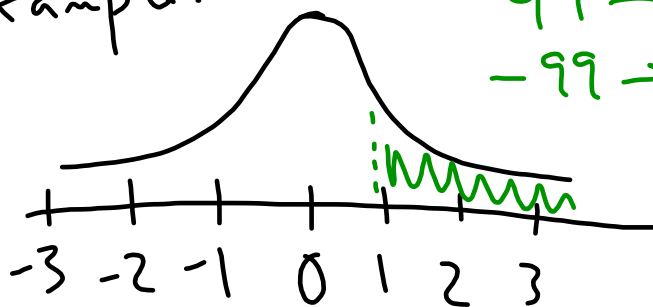
Calculator Skills:

- If σ is not a whole number, we need to get the percentage between whole values.

- $\text{normalcdf}(\text{lower } z\text{-score}, \text{upper } z\text{-score})$

2nd VARS \rightarrow 2: normalcdf (
(DISTR)

- Example:



99 $\rightarrow +\infty$

-99 $\rightarrow -\infty$

2nd VARS \rightarrow 2: normalcdf (

$\text{normalcdf}(1, 99) \rightarrow$ gives a decimal answer. Convert to percentage

.1586 \rightarrow 15.86%

- Example: Lower = -1
Upper = 1

Percentage between = 68.24%

- Example: Lower = -0.5
Upper = 1.0

53.28%

- Example: Lower = $-\infty$ (-99)
Upper = 1.80

96.41%

Normal Practice 1:

